Certificate of Mailing

I hereby certify that this correspondence and any documents referred to as enclosed or attached is being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to: Attn: Mail Stop Non-fee Amendment Commissioner for Patents, P.O: Box 1450, Alexandria,

Virginia 22313-1450 on May 14, 2004

Gretchen King

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Bussear et al.

Serial No.: 10/047,728

For:

01/15/02

Apparatus and Methods for §

Using a Surface-Based Oscillator as a Downhole

Seismic Source

Examiner:

McCloud, R.

Art Unit: 2837

Attorney Docket No.: 284-15718-USCE

MS: Non-fee Amendment Commissioner for Patents

P.O. Box 1450

Alexandria, VA. 22313-1450

RESPONSE TO OFFICE ACTION MAILED APRIL 28, 2004

Sir:

Filed:

In response to the office action mailed April 28, 2004, please amend the application as follows:

Remarks/Arguments begin on page 2 of this paper.

PTO/SB/21 (03-03) Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it displays a valid OMB control number. Under the Paperwork Reduction Act of 1995, no persons are required to respond to **Application Number** 10/047,728 **TRANSMITTAL** Filing Date 01/15/02 **FORM** First Named Inventor Terry R. Bussear Art Unit 2837 (to be used for all correspondence after initial filing) **Examiner Name** Renata D. McCloud Attorney Docket Number 284-15718-USCE Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication Fee Transmittal Form Drawing(s) to a Technology Center (TC) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC • Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a **Proprietary Information** After Final Provisional Application Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Terminal Disclaimer **Extension of Time Request** Identify below): 2. Return Postcard Request for Refund **Express Abandonment Request** CD, Number of CD(s) Information Disclosure Statement Remarks Certified Copy of Priority Document(s) The Commissioner is authorized to charge any under payment or credit any over payment to Deposit Account No. 02-0429 Response to Missing Parts/ Incomplete Application (284-15718-USCE). Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Shawn Hunter, Reg. No. 36,168 Individual Signature Date May 14, 2004

CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: Typed or printed Gretchen King Signature Date May 14, 2004

This collection of information is required by 37 GFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the co-holeted application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.